



# UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
09/536,618	03/28/00	FUJII	T	43889-929

-020277 MCDERMOTT WILL & EMERY 600 13TH STREET, N.W. WASHINGTON DC 20005-3096

MM91/0926

EXAMINER
PHAM, H

ART UNIT PAPER NUMBER
2814

DATE MAILED:

09/26/01

Please find below and/or attached an Office communication concerning this application r proceeding.

**Commissioner of Patents and Trademarks** 

09/536,618 FUJII ET AL.						
· Offic Action Summary Examiner Art Unit						
Hoai V Pham 2814						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)⊠ Responsive to communication(s) filed on <u>20 July 2001</u>						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) 2,3,5,8,9 and 11 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4,6,7,10,12 and 13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 09/018,181.						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4  4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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#### **DETAILED ACTION**

### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1, 4, 6, 7, 10, 12 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the phrase "a supporting film formed on at least one of the upper and lower surface of the second insulating film" is unclear since in the specification (page 41, lines 6-9 and figure 5) described the supporting film 17 is between a first insulating film16 and a second insulating film 23. Therefore, there is no supporting film formed on at least one of the upper of the second insulating film.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 4, 6, 710, 12, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee [U.S. Pat. 5,936,272].

Lee (figure 4, cols. 7-10) discloses a semiconductor device comprising: a gate (70) on a substrate (100);

an impurity diffusion layer (118, 119) in a region sideways of the gate;

an interlayer insulating film (125, BPSG) formed on the gate;

a supporting film (135, O<sub>3</sub>-TEOS) formed on the interlayer insulating film;

an etching stop film (136, silicon nitride) formed on the supporting film;

a cylindrical storage node (140,160) filling an opening formed in the interlayer insulating film and extending over apart of the interlayer insulating film;

a capacitor insulating film and a plate electrode formed for coverage over the storage node (see col.10, lines 1-4)

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Lee does not show a capacitor insulating film and a plate electrode formed for

coverage over the interlayer insulating film. However, a capacitor insulating film and a

plate electrode formed for coverage over the interlayer insulating film are well-known to

those skilled in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hoai V Pham whose telephone number is 703-308-

6173. The examiner can normally be reached on 6:30A.M. - 6:00P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

HP

Hoai Pham

September 20, 2001

OLIK CHAUDHURI

SUPERVISORY PATENT EXAMINER

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